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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,552	01/27/2004	Dong-Keon Kong	46235	9586

1609 7590 07/18/2007  
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WASHINGTON,, DC 20036

EXAMINER
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PEACHES, RANDY

ART UNIT	PAPER NUMBER
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2617

MAIL DATE	DELIVERY MODE
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07/18/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/764,552

Applicant(s)

KONG ET AL.

Examiner

Randy Peaches

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 April 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-6,8-10,12,13 and 16-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) 1,2,4-6,12,13 and 16-18 is/are allowed.
- 6) ☒ Claim(s) 8-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. ***Claims 8-10*** are rejected under 35 U.S.C. 103(a) as being unpatentable over Rezaiifar et al. (U.S. Patent Publication Number 2004/0120283 A1) in view of Silver et al. (U.S. Patent Number 6,961,578 B2).

Regarding ***claim 8***, Rezaiifar et al. discloses a method of cross-paging from wireless communication system (250) to a mobile station, the method comprising the steps of:

- determining whether the said mobile station has been location-registered in the wireless communication system (250) or in heterogeneous mobile communication system 260 and 270, see paragraph [0069] with reference to pre-registered location information of the said mobile station when paging request of the mobile terminal occurs in the said heterogeneous mobile communication system 260 and 270. See paragraph [0044 and 0074], wherein the wireless communications system comprises a circuit switched network. See FIGURE 1; and the heterogeneous mobile communication system 260 and 270, wherein the said heterogeneous network can support either CDMA 2000 or IS 856 only,

which reads on claimed "provides packet data service." See paragraph [0065-0066];

- transmitting a cross-paging message from the said heterogeneous mobile communication system 260 and 270 to the mobile communication system if the mobile terminal has been location-registered in the mobile communication system. See paragraph [0049 and 0076-0078]; and
- transmitting a paging message to the mobile terminal in response to the cross-paging message in the mobile communication system. See paragraph [0065].

However, Rezaiifar et al. fails to clearly detail wherein the said terminal has been location registered in the heterogeneous system.

Silver et al. teaches in column 2 lines 61-67, column 3 lines 1-10 wherein location information from a packet switched network is received by a circuit switched network in order to initiate a call. Silver et al. continues in column 8 lines 34-64 and FIGURE 4 wherein the process of establishing a call is disclosed.

Therefore at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify Rezaiifar et al. (U.S. Patent Publication Number 2004/0120283 A1) to include Silver et al. (U.S. Patent Number 6,961,578 B2) in order to provide system capable of sending location information of a terminal to a corresponding network in a heterogeneous environment.

Regarding **claim 9**, as the combination of Rezaiifar et al. and Silver et. al. are made, the

combination according to **claim 8**, Rezaiifar et al. continues to disclose wherein the heterogeneous mobile communication system determines that the mobile terminal has been location-registered in the mobile communication system if a pre-registered identifier is a first identifier for identification in the mobile communication system, and that the mobile terminal has been location-registered in the mobile communication system if a pre-registered identifier is a second identifier for identification in the heterogeneous mobile communication system. See paragraphs [0044 and 0047].

Regarding **claim 10**, as the combination of Rezaiifar et al. and Silver et. al. are made, the combination according to **claim 8**, Rezaiifar et al. continues to disclose wherein the cross-paging message includes information for requesting that a data call is set up with the heterogeneous mobile communication system 260 and 270. See paragraphs [0066].

***Allowable Subject Matter***

***Claims 1-2, 4-6, 12-13 and 16-18*** are allowed.

Accordingly, at this stage of prosecution, that the claimed language of the above claims overcomes the cited prior art of record. The Examiner would like to note that the claim over-come the cited art based on the premise that the system is capable of determining whether to register the said device based on the byte number included in the location registration information.

***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy Peaches whose telephone number is (571) 272-7914. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Randy Peaches  
RP

  
**JOSEPH FEILD**  
SUPERVISORY PATENT EXAMINER